

SEQUENCE LISTING

<110> TAKARA BIO INC.

<120> Method for introducing mutation into target nucleic acid

<130> 663910

<150> JP 2002-204887

<151> 2002-07-12

<150> JP 2003-113534

<151> 2003-04-18

<160> 16

<170> PatentIn Ver. 2.1

<210> 1

<211> 720

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gene encoding red-shifted
green fluorescence protein.

<400> 1

atggctagca aaggagaaga actcttcact ggagttgtcc caattcttgt tgaattagat 60

ggtgatgtta acggccacaa gttctctgtc agtggagagg gtgaagggtga tgcaacatac 120
 ggaaaactta ccctgaagtt catctgcact actggcaaac tgcctgttcc atggccaaca 180
 ctagtcacta ctctgtgcta tgggtgttcaa tgcttttcaa gatacccgga tcatatgaaa 240
 cggcatgact ttttcaagag tgccatgccc gaaggttatg tacaggaaaag gaccatcttc 300
 ttcaaagatg acggcaacta caagacacgt gctgaagtca agtttgaagg tgataccctt 360
 gttaatagaa tcgagttaaa aggtattgac ttcaaggaag atggaaacat tctgggacac 420
 aaattggaat acaactataa ctcacacaat gtatacatca tggcagacaa acaaaaagaat 480
 ggaatcaaag tgaacttcaa gacccgccac aacattgaag atggaagcgt tcaactagca 540
 gaccattatc aacaaaatac tccaattggc gatggccctg tccttttacc agacaaccat 600
 tacctgtcca cacaatctgc cctttcgaaa gatcccaacg aaaagagaga ccacatggtc 660
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<210> 2

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer Us-EcoRI to
 amplify a gene encoding red-shifted green fluorescence
 protein.

<400> 2

cttgaattcg gtaccgagct cggatcgggc gcgcaagaaa

40

<210> 3

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer DEND to amplify
a gene encoding red-shifted green fluorescence protein.

<400> 3

cactggcggc cgttactagt

20

<210> 4

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer Us-HindIII
to amplify a gene encoding red-shifted green fluorescence
protein.

<400> 4

cttaagcttg gtaccgagct cggatcgggc gcgcaagaaa

40

<210> 5

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer U100HindIII
to amplify a portion of gene encoding red-shifted green
fluorescence protein.

<400> 5

ctaagcttct ggcaaactgc ctgttccatg gccaacacta

40

<210> 6

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer D100BamHI to
amplify a portion of gene encoding red-shifted green
fluorescence protein.

<400> 6

tcggatccaa gtcatgccgt ttcatatgat ccgggtatct

40

<210> 7

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer Us-EcoRI-1
to amplify a gene encoding red-shifted green fluorescence
protein.

<400> 7

gaattcggta ccgagctcgg atcggg'gcgcg caagaaa

37

<210> 8

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer Us-HindIII-1
to amplify a gene encoding red-shifted green fluorescence
protein.

<400> 8

aagcttggta ccgagctcgg atcggg'gcgcg caagaaa

37

<210> 9

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer U100HindIII-1
to amplify a portion of gene encoding red-shifted green
fluorescence protein.

<400> 9

aagcttcttg caaactgcct gttccatggc caacacta

38

<210> 10

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<221> modified_base

<222> (1).. (4)

<223> um

<220> <221> modified_base

<222> (50).. (53)

<223> um

<220>

<223> Description of Artificial Sequence: Chimeric oligonucleotide
ss Oligo.

<400> 10

uuuuatcttg aaaagcattg aacaccatag cacagagtag tgactagtgu uuut

54

<210> 11

<211> 35

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: PCR primer RNA-*ecoRI*
to amplify a portion of gene encoding red-shifted green
fluorescence protein. "nucleotides 1 to 6 are 2'-O-methyl
ribonucleotides - other nucleotides are deoxyribonucleotides"

<400> 11

gaauucggta ccgagctcgg atcggg'gcgcg caaga

35

<210> 12

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer RNA-*hindIII*
to amplify a portion of gene encoding red-shifted green
fluorescence protein. "nucleotides 1 to 6 are 2'-O-methyl
ribonucleotides - other nucleotides are deoxyribonucleotides"

<400> 12

aagcuuggta ccgagctcgg atcgggagag caaga

35

<210> 13

<211> 30

<212> DNA

<213> homo sapience

<400> 13

gattgcttta gcttggaat tccggagctg

30

<210> 14

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer GFP-kB1 to
amplify a portion of gene encoding red-shifted green
fluorescence protein.

<400> 14

agctaaagca atctcagttg tacagttcat ccatgccatg

40

<210> 15

<211> 40

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: PCR primer GFP-kB2 to amplify a portion of gene encoding red-shifted green fluorescence protein.

<400> 15

tccggaattt ccaagctaaa gcaatctcag ttgtacagtt 40

<210> 16

<211> 40

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: PCR primer GFP-kB3 to amplify a portion of gene encoding red-shifted green fluorescence protein.

<400> 16

ttttggatcc cagctccgga atttccaagc taaagcaatc 40